

Title (en)  
LIQUID CIRCULATION SYSTEM

Title (de)  
FLÜSSIGKEITZIRKULATIONSSYSTEM

Title (fr)  
SYSTÈME DE CIRCULATION DE LIQUIDE

Publication  
**EP 2505361 A4 20131204 (EN)**

Application  
**EP 10833355 A 20101126**

Priority  
• JP 2009270294 A 20091127  
• JP 2010071183 W 20101126

Abstract (en)  
[origin: EP2505361A1] Liquid is appropriately circulated with a low cost and thereby precipitation of fine particles in the liquid is prevented and bubbles in the liquid flow passage are removed. A liquid circulation system includes an inkjet head 2 in which a common ink flow passage 16 is formed, an ink cartridge 3, a supply flow passage 4 through which ink is supplied from the ink cartridge 3 to an inlet 16a of the common ink flow passage 16, a return flow passage 5 through which the ink is returned from the outlet 16b of the common ink flow passage 16 to the ink cartridge 3, a tube pump 6 sending the ink in the supply flow passage 4, a tube pump 7 sending the ink in the return flow passage 5, a pressurization bellows unit 8 pressurizing the ink in the supply flow passage 4, a pressure reduction bellows unit 9 depressurizing the ink in the return flow passage 5, a pressurization regulator 10 maintaining the inlet 16a at a center value "+±" of a designated head value, and a pressure reducing regulator 11 maintaining the outlet 16b at a center value "-±" of the designated head value.

IPC 8 full level  
**B41J 2/175** (2006.01); **B41J 2/18** (2006.01); **B41J 2/19** (2006.01)

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Citation (search report)  
• [XAI] US 2009267976 A1 20091029 - LEE IN SU [KR], et al  
• See references of WO 2011065510A1

Cited by  
EP3424728A1; EP4173830A4; EP3199356A1; US10493750B2; US9873246B2

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DOCDB simple family (publication)  
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